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1. AF16-AT13: High-Speed Measurements of Dynamic Flame Stabilization Processes in High-Pressure Combustion Systems

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Air Platform OBJECTIVE: Develop volumetric, high-repetition-rate techniques to increase the spatial dimensionality of quantitative flame-position and turbulent-velocity-field measurements of unsteady combustion processes in high-pressure combustors. DESCRIPTION: Combustor and turbine component performance and lifetime are highly sensitive to unsteady temperature, pressure, and ...

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2. AF16-AT14: Modeling and Simulation of Lean Blowout in High-Pressure Swirl-Stabilized Combustors

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Air Platform OBJECTIVE: Develop new physics-based turbulent combustion models for predicting the onset of lean blowout in propulsion systems operating

at Air Force relevant conditions including high pressures, high-speed compressible flows, and high turbulence intensities. DESCRIPTION: Many existing modeling and simulation approaches have been developed for and applied to turbu ...

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3. AF16-AT15: Experimentally Derived Scaling Laws from Spatiotemporally Resolved Measurements in High-Pressure Combustors

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Air Platform OBJECTIVE: Develop spectroscopic test platforms for quantitative, interference-free, spatiotemporally resolved measurements of temperature and species concentrations in turbulent combustors at pressures and temperatures relevant to Air Force propulsion systems. DESCRIPTION: An understanding of fundamental combustion processes at elevated pressures relevant to Air F ...

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4. AF16-AT16: Novel Approaches for Integrated Controls with TMS and Power

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Air Platform The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offerors must ...

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5. AF16-AT17: Packaging and Assemblies for High-temperature Intelligent Aerospace Controls

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Air Platform The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offerors must ...

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6. AF16-AT18: Low-cost, Reliable, and Long-life Components for the Next-Generation Aerospace Controls

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Air Platform OBJECTIVE: Insertion of advanced commercial controls technologies into turbine engine controls in order to reduce development and acquisition costs. Customize advanced sensing and control COTS hardware and software components in high temperature/vibration. DESCRIPTION: Current turbine engines are controlled by Full Authority Digital Engine Control (FADEC) systems t ...

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7. AF16-AT19: Embedded Computing Systems Runtime Integrity Protection

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Space Platforms The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offerors mu ...

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8. AF16-AT20: Development of Room-Temperature Ionic Liquids for Reversible Electroplating

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Materials/Processes The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offeror ...

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9. AF16-AT21: Space Object Energy Parameter and State Inference To Support Object Detection, Tracking, Identification and Classification

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Information Systems The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offeror ...

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10. AF16-AT22: Infrared Light Emitting Diode Arrays for Target Image Projection

Release Date: 12-11-2015Open Date: 01-11-2016Due Date: 02-17-2016Close Date: 02-17-2016

TECHNOLOGY AREA(S): Weapons The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offerors must discl ...

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